



VRT PLUS

A Unique Approach to Capture Knowledge





What is VRT PLUS?



VRT PLUS is a software driven application for video lecture production with intuitive user interface to capture and stream video in real-time. Our product harness the power of video to educate, engage, inspire and collaborate.

Integrating VRT PLUS capture systems into learning environments facilitates student learning, improves student outcomes and provides students with a higher level of academic satisfaction. It also brings a new versatility to the learning process, for both students and instructors.





Why VRT PLUS?



VRT PLUS motto is to offer “A unique approach to capture knowledge”

Lecture Capture has entered the educational arena and is changing the way educators and students or participants perceive the learning experience.

Recent studies have demonstrated that individual control over the pace of learning increases student motivation and engagement, connecting student and content via easy-to-master technology. Students who have access to VRT PLUS lecture capture technology are able to review difficult concepts, catch up on missed lectures and enhance their own learning experience through recorded lectures of VRT Plus.





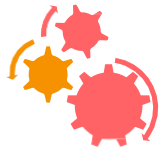
Target Audience?



VRT PLUS is specially developed and designed for the following market segments:

- Schools
- Corporate Training & Conferences
- Coaching Institutes
- Distance Learning
- Youtubers
- Religious Institutes
- Live webcasting





Technical Sheet- System Configuration



- Main Board : ASUS Z Series
- CPU : Intel i5 Processor 7th Gen or better
- RAM : DDR4 8GB
- HDD : 1 TB SATA
- DVD-RW : Internal Slim DVD Burner SATA
- Graphic card : NVidia Graphic card 2GB
- Power supply : 680W 100-240V PSU
- SDI/VGA/DVI/HDMI Board for Laptop Input 1
- SDI/HDMI Output Board
- System cabinet : Rugged foldable case with inbuilt monitor
- Keyboard and Mouse inbuilt
- LCD Display : 17.3" Full HD 1920 x 1080 Resolution with LED Backlight
 - 16:9 Widescreen ratio
 - Brightness: 300 cd/m²
 - Contrast Ratio: 400:1
 - Response Time: 8ms
 - 262K Colors
- OS Windows 10





Video and Audio



- **Video Input**
 - Unlimited x HD/SD-SDI (10-bit BNC 75 Ω) up to 4K OR
 - Unlimited x USB camera or Document camera OR
 - UNlimited x NDI
- **Video Digital Output**
 - 1 x HDMI (Type A ver. 1.4)
 - 1 x SD/HD-SDI (10-bit BNC 75 Ω) up to 4K
 - 1 x HDMI from Graphic Card
 - 1 x NDI
- **Audio Input Supports (Depend on input audio device)**
 - 1 x 3.5mm Jack EP Mic/Line
 - 1 x HDMI or SD/HD-SDI Embedded (8 channels)
 - 1 x USB audio Mixer
- **Audio Output (depend on output hardware)**
 - 1 x HDMI or SD/HD-SDI Embedded (8 channels)
 - 1 x 3.5mm Jack EP Mic/Line
 - 1 x USB audio Mixer





Features ... 1



- **Virtual Switcher**
 - Easy to use Virtual Switcher with changeable speed control and cut function
 - Real time ready to use Virtual Sets
 - Simple multi layer solution
 - Easy to use switcher to switch multiple input in Virtual sets
 - Easy to use editor to modified virtual sets
- **Multi Viewer**
 - Onboard Multi Viewer for instant Preview
- **Look Ahead Preview**
 - Separate Preview window to see preview before go on air
- **Transitions**
 - Readymade transition for change source in Virtual sets Monitor





Feature ...2



- **High Quality Recorder**
 - Readymade presets with BEST, GOOD and NORMAL Quality in .MP4, MPEG, MOV and MTS format
 - Maximum recorder @40Mbps variable upto4K
 - Auto spilt recording files in assigned or customduration
 - Recording pause
 - Supports Unicode text for file name
 - Onboard button for instant start and stop
- **Multi Streaming at single click**
 - Streaming in 2 Channels at same time in rtmp or any third party streamingserver.
 - Various Readymade resolutions and speed
 - Onboard button for instant start and stop
- **Live Meeting or Lecture**
 - Supports Skype, Zoom, QQ, Wechat, LiveStream, HangOut or any IM
 - High quality audio video processing





Feature ...3



□ Audio Control

- Onboard slider to control master audio output
- Onboard easy to use Audio Controller
- External audio input

□ Character Generator (CG)

- Unlimited x Title,
- Unlimited x Logo,
- Unlimited x Ticker
- Unlimited x date
- Easily editable all layers
- Support Unicode text
- Onboard button for instant start and stop

□ Supports Media sequence in Virtual Monitor

- 2 media sequencer
- Images or video files in sequences
- Independent control for each file
- Play, pause, next, previous, loop options
- Save, Load and edit list

□ High quality Chroma-key

- Unlimited x Auto Chroma key function for Live input from camera
- Controls for fine tuning edge and spill





Application

Introduction

Live Input



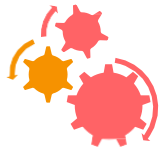
- Supports various third party input and output hardware
- Embedded audio Support
- External USB audio support
- Various video & audio format support
- Auto detect input signal, type and resolution
- Down scale or up scale option for each input
- Almost all resolution Input and Output Supported
- 6 Live Inputs (maximum resolution support - 4K)
- DDR 1 and DDR 2 can support Images videos
- Controller for each DDR play pause

Possible input interface combinations:

- SDI or HDMI (maximum 6 inputs Live camera)
- USB (document cam, web cam, conferencecam)
- NDI (Notebook or PC or Camera)
- DDR (Images or Video files)

1. Presenter video (Camera SDI 1)
2. Audience video 2 (Camera SDI 2)
3. PPT input (VGA)
4. USB Camera (USB)
5. Document Camera (USB)
6. NDI - LAN/WIFI





Virtual Camera / Scene



- 8 Virtual Scene with different angles & position.
- Each scenes can be designed by user with the help of easy GUI from editor
- Custom Duration can be select between each virtual scene
- Directly CUT option given in each virtual scene
- Every virtual camera preview is available
- Custom & Unlimited virtual studio can be created
- Smooth transition within all virtual motion
- Selected scene will be highlighted in red border



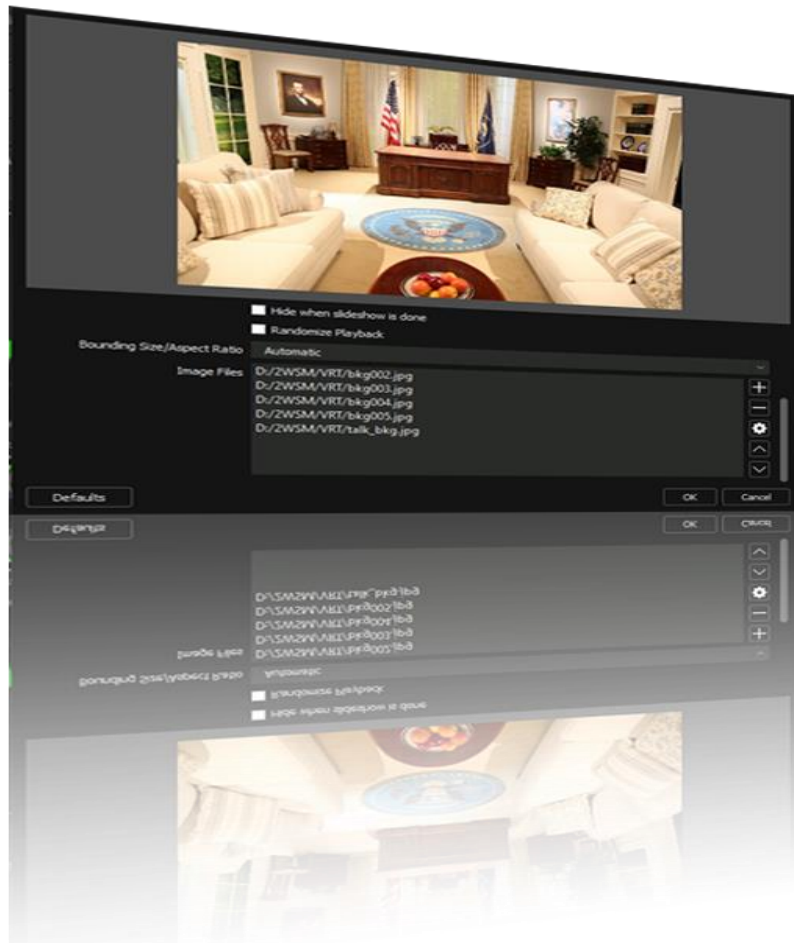
Chroma Key



- Auto Chroma key with one click and auto adjustment for best output result.
- Currently supports 2 Channel i.e. Live Input 1 and 2.
- Virtual studio can be designed as per chroma key or non chroma key version studios like virtual studio or PIP, USB camera or any digital camera can be selected and keyed easily.
- Various controller are given to control or for fine tuning for chroma key.
- Green or blue can be keyed in current version of application.



DDR or Virtual Monitors



- Add images or video files in sequences
- Save and load sequences
- Assign auto timer for each files
- Detailed information about sequencers
- Controller to video files like play, pause, loop and more
- Supports almost all format of videos and images
- Shortcuts keys to control media files



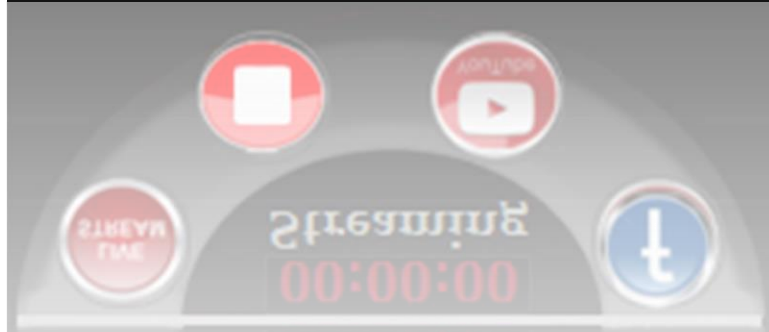


Recording format

- Recording in various format like .mp4 .mov .mpg .mts
- Output preview given in GUI for monitoring
- Various audio and video bit rate option are given from 12 mbps to 40 mbps
- Automatic Breakup of recording in particular duration for easy editing.
- User can Pause while recording in between.
- Detailed Recording information displayed like, recording path, format, file size etc..
- Selection for audio bit rate as per requirement.
- Resolution for output recording: up to 4K
- Custom selectable folder and name for recording file.



Stream



- Various streaming option through
 - RTMP
 - UDP
 - RTSP
 - IIS LIVE
 - WAV
 - RTMP FMLE H264
 - VP6
 - Youtube
 - Facebook
- Various Resolution can be selected
- Audio and video codec selection option
- Streaming option can controller individually like start/stop
- Support Live streaming servers
- Custom bandwidth selection from High to Low



Audio Mixer



Audio Mixer configure audio levels and settings for every source and signal, including stereo output mixes and the deepest, most flexible and precise control of any switcher-based audio mixer.

Mix-and-Match Audio Inputs use any combination of supported digital or analog audio devices, including microphones, mixers and sound systems, to deliver top-quality audio.

Audio Follow Video (AFV) - Simplify even the most complex A/V setup by selecting any video source to automatically trigger the appropriate audio selection.

- Individual audio controlled for each input or media
- Audio preview or monitoring option
- Peak bar meter and volume control knob for each input
- Master audio to controller while recording
- Simple to use audio mixer GUI
- Reset and mute option given for each input
- USB audio mixer or Embedded can be controlled
- All media files audio go through audio mixer



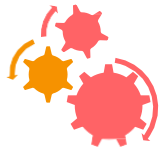


Character generator

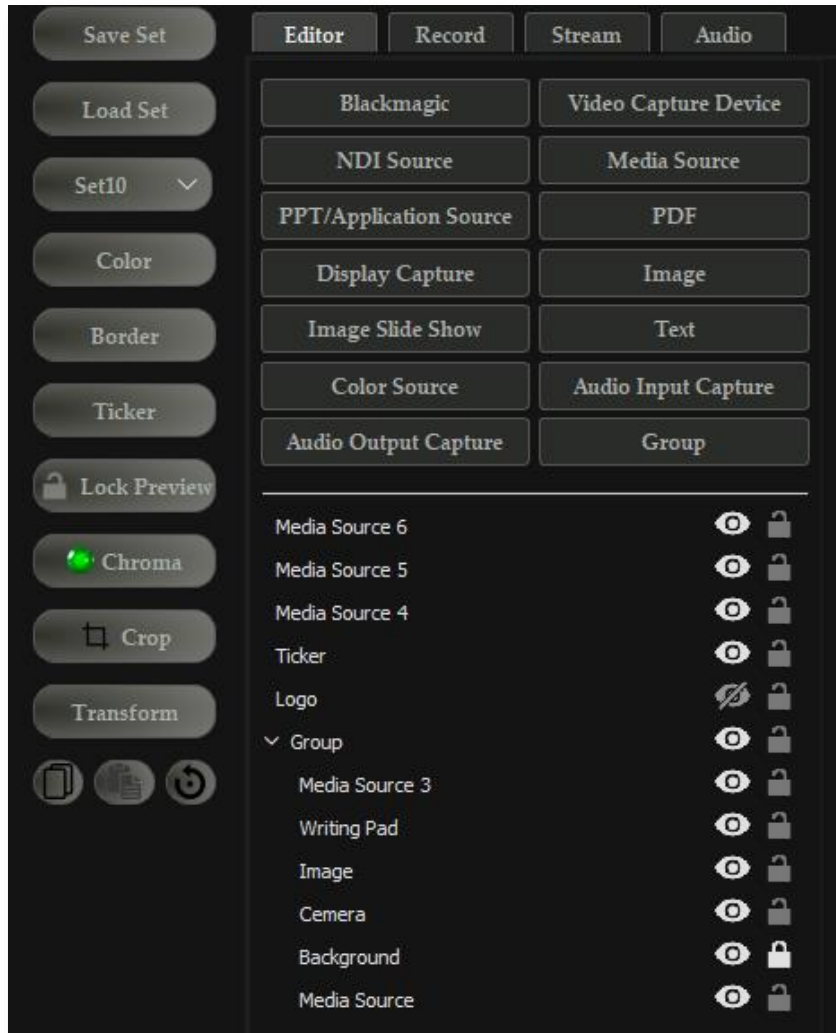


- Unlimited Logo (insertion of university or company logo)
- Unlimited scroll line or ticker with custom font and background modification it can be color or image
- Unlimited Title (Actor name)
- All are customizable and editable easily
- .txt files can be loaded for scroll line
- Each design can be saved as preset
- Each layer text and object have formatting option
- Real time preview can be viewed before going On-Air
- Supports Unicode text like Chinese, Korean or Japanese





Scene Editor



- Each layer can be edited position, rotation & scale X Y Z for all
- Easy to use Gui to create custom virtual Studio or PIP
- Each layer can be shown or hidden with fade or cut effect
- Border for monitor and mask option given user can customize
- Live preview while editing each scene
- Create & save unlimited virtual studio
- Preview for selected graphics files
- Generate Thumbnails for all scene



Samples Studio templates



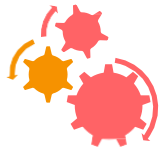


Unique features and functions



- Recording up to 4K quality
- High quality streaming with various advance function & options
- NDI input or Output for camera or Notebook
- Video input and output supports up to 4K
- Embedded audio input and output
- Web stream video link as Input
- More than 50 ready to use templates
- Easy to use editor to create unlimited templates
- Insertion of Logo, title, ticker and date time.
- Support for Unicode fonts like Chinese, Japanese, Korean & many more..
- Can be integrated with your current studio setup
- Pause while recording
- Audio control for each Input and media
- High Quality Auto Chroma Key
- Real Time Look ahead preview audio, video and CG





Thank You

